

### **Abstract of the Disclosure**

5       A replaceable circuit breaker module has a housing for supporting  
and enclosing elements of the module, a circuit breaker mounted in the  
housing in a manner that an action of installing the module connects the  
breaker to bridge an incoming and an outgoing conductor, and monitoring  
circuitry for monitoring characteristics of the circuit breaker, the monitoring  
circuitry mounted in the housing and having a first connector element for  
10       engaging a mating connector element in the action of installing the module.  
The module is characterized in that action of withdrawing the circuit breaker  
module also withdraws the monitoring circuitry. Sensors in the monitoring  
circuitry may include sensors for monitoring one or more of breaker  
presence, on/off state of the breaker, and voltage provided to the breaker.